AUTHOR INDEX

Acutis, M., Pascal, G., Reyner, A. and Siniscalco, C. (Torino, Italy)
Evolution of vegetation under intensive grazing: two examples in north-western Italian mountains 347
Aguinaco, M.T., *see* Bellot, J. et al.
Alderweireldt, M. (Ghent, Belgium)
An ecological analysis of the spider fauna (Araneae) occuring in maize fields, Italian ryegrass fields and their edge zones, by means of different multivariate techniques 293
Altieri, M.A. (Albany, CA, U.S.A.)
Agroecology: a new research and development paradigm for world agriculture 37
Andow, D.A. (St. Paul, MN, U.S.A.) and Hidaka, K. (Hiroshima, Japan)
Experimental natural history of sustainable agriculture: syndromes of production 447
Bacci, E., Renzoni, A., Franchi, A., Gaggi, C., Severi, A. (Siena, Italy), Calamari, D. and Vighi, M. (Milano, Italy)
Models, field studies, laboratory experiments: an integrated approach to evaluate the environmental fate of atrazine (*s*-triazine herbicide) 513
Baudry, J. (Saint-Pierre-sur-Dives, France)
Interactions between agricultural and ecological systems at the landscape level 119
Beckman, K.B., *see* Pimentel, D. et al.
Bellot, J. and Aguinaco, M.T. (Zaragoza, Spain) and Golley, F. (Athens, GA, U.S.A.)
Environmental consequences of salts exports from an irrigated landscape in the Ebro River Basin, Spain 131
Biala, J., *see* Schueler, C. et al.
Bohac, J., *see* Pokarzhevskij, A.D. et al.
Born, H., *see* Koehler, H. and Born, H.
Boyle, K.E., *see* Curry, J.P. et al.
Brussaard, L., *see* Kooistra, M.J. et al.
Brust, G.E., *see* House,, G.J. and Brust, G.E.
Buttler, I.W., *see* Pimentel, D. et al.
Calamari, D., *see* Bacci, E. et al.
Caporali, F., Nannipieri, P. (Viterbo, Italy), Paoletti, M.G. (Padova, Italy), Onnis, A., Tomei, P.E. and Tellarini, V. (Pisa, Italy)
Concepts to sustain a change in farm performance evaluation 579
Cervelli, S., Perna, A. (Pisa, Italy) and Ekler, Zs. (Budapest, Hungary)
A simple model to evaluate herbicide fate in the air–water–soil system 523
Chen, R. (Guangzhou, Peoples' Republic of China)
Energy and nutrient flow through detritus food chains 205
Coleman, D.C., *see* Crossley, D.A., Jr., et al.
Colombo, P., Melati, M.R., Scialabba, A., Trapani, S. and Sortino, M. (Palermo, Italy)
The ecomorphology of *Carica quercifolia* Solms-Laub. in a Mediterranean climate 397
Corona, P. and Ferrara, A. (Rome, Italy)
Individual competition indices for conifer plantations 429
Cova, D., Rossini, L. (Milano, Italy), Natali, P., Trevisan, M. and Del Re, A.A.M. (Piacenza, Italy)
Assessment of the toxicological risk of pesticides and its correlation to the physico-chemical characteristics and tissue distribution 531
Cova, D., *see* Del Re, A.A.M. et al.
Crossley, D.A., Jr., Coleman, D.C. and Hendrix, P.F. (Athens, GA, U.S.A.)
The importance of the fauna in agricultural soils: research approaches and perspectives .. 47

Culliney, T.W., *see* Pimentel, D. et al.
Curry, J.P., Boyle, K.E. and Farrell, E.P. (Dublin, Ireland)
The invertebrate fauna of reclaimed cutaway peat in Central Ireland and its influence on soil fertility and plant growth 217
Daccordi, M. and Zanetti, A. (Verona, Italy)
Carabid and staphylinid beetles in two vineyards in the Province of Verona (Italy) 307
Del Re, A.A.M., *see* Cova, D. et al.
Del Re, A.A.M., Ragozza, L., Rondelli, E., Trevisan, M. (Piacenza, Italy), Cova, D. and Rossini, L. (Milano, Italy)
Pesticide residues in the Po River watershed: application of a mathematical model 539
Duden, R., *see* Meier-Ploeger, A. et al.
Edwards, C.A. (Columbus, OH, U.S.A.)
The importance of integration in sustainable agricultural systems 25
Ekler, Zs., *see* Cervelli, S. et al.
El Titi, A. and Ipach, U. (Stuttgart, F.R.G.)
Soil fauna in sustainable agriculture: results of an integrated farming system at Lautenbach, F.R.G. 561
Farina, A. (Aulla, Italy)
Bird community patterns in Mediterranean farmlands: a comment 177
Farrell, E.P., *see* Curry, J.P. et al.
Ferrara, A., *see* Corona, P. and Ferrara, A.
Flaim, G.M. *and* Toller, Gb. (St. Michelle all'Adige, Italy)
Treatment of post-harvest pesticide residues 505
Forde, G., *see* Stopes, C. et al.
Franchi, A., *see* Bacci, E. et al.
Fratello, B., Sabatini, M.A., Mola, L. (Modena, Italy), Uscidda, C. and Gessa, C. (Sassari, Italy)
Effects of agricultural practices on soil Arthropoda: organic and mineral fertilizers in alfalfa fields 227
Fricke, K., Pertl, W. and Vogtmann, H. (Witzenhausen, F.R.G.)
Technology and undesirable components on compost of separately collected organic wastes 463
Gaggi, C., *see* Bacci, E. et al.
Gessa, C., *see* Fratello, B. et al.
Goedmakers, A.M.C. (Amersfoort, The Netherlands)
Ecological perspective of changing agricultural land use in the European Community 99
Golley, F., *see* Bellot, J. et al.
Gordienko, S.A., *see* Pokarzhevskij, A.D. et al.
Gusev, A.A., *see* Pokarzhevskij, A.D. et al.
Hartl, W. (Vienna, Austria)
Influence of undersown clovers on weeds and on the yield of winter wheat in organic farming 389
Hendrix, P.F., *see* Crossley, D.A., Jr. et al.
Hidaka, K., *see* Andow, D.A. and Hidaka, K.
House, G.J. and Brust, G.E. (Raleigh, NC, U.S.A.)
Ecology of low-input, no-tillage agroecosystems 331
Ipach, U., *see* El Titi, A. and Ipach, U.
Koehler, H. and Born, H. (Bremen, F.R.G.)
The influence of vegetation structure on the development of soil mesofauna 253

Kooistra, M.J. (Wageningen, The Netherlands), Lebbink, G. and Brussaard, L. (Haren, The Netherlands)
The Dutch programme on soil ecology of arable farming systems. 2. Geogenesis, agricultural history, field site characteristics and present farming systems at the Lovinkhoeve experimental farm 361
Kromp, B. (Vienna, Austria)
Carabid beetle communities (Carabidae, Coleoptera) in biologically and conventionally farmed agroecosystems 241
Kuikman, P.J., van Vuuren, M.M.I. and van Veen, J.A. (Wageningen, The Netherlands)
Effect of soil moisture regime on predation by protozoa of bacterial biomass and the release of bacterial nitrogen 271
Lebbink, G., *see* Kooistra, M.J. et al.
Lockeretz, W. (Metford, MA, U.S.A.)
Problems in evaluating the economics of ecological agriculture 67
Lorenzoni, G.G., *see* Paoletti, M.G. and Lorenzoni, G.G.
Lorenzoni, G.G., *see* Zanaboni, A. and Lorenzoni, G.G.
Lorenzoni, G.G., *see* Nazzi, F. et al.
Maurer, L.J. (Vienna, Austria)
An ecological approach to agriculture - the Austrian example 573
Meier-Ploeger, A. (Fulda, F.R.G.), Duden, R. (Karlsruhe, F.R.G.) and Vogtmann, H. (Witzenhausen, F.R.G)
Quality of food plants grown with compost from biogenic waste 483
Melati, M.R., *see* Colombo, P. et al.
Milanesi, M. (Florence, Italy)
Agricultural farm planning and protection of the environment 91
Minelli, A. (Padova, Italy)
The role of taxanomy in the analysis of natural and agricultural communities 57
Mola, L., *see* Fratello, B. et al.
Nannipieri, P., *see* Caporali, F. et al.
Natali, P., *see* Cova, D. et al.
Nazzi, F., Paoletti, M.G. and Lorenzoni, G.G. (Padova, Italy)
Soil invertebrate dynamics of soybean agroecosystems encircled by hedgerows or not in Friuli, Italy. First data 163
Onnis, A., *see* Caporali, F. et al.
Paoletti, M.G., *see* Stinner, D.H. et al.
Paoletti, M.G. and Lorenzoni, G.G. (Padova, Italy)
Agroecology patterns in northeastern Italy 139
Paoletti, M.G., *see* Caporali, F. et al.
Paoletti, M.G., *see* Nazzi, F. et al.
Pascal, G., *see* Acutis, M. et al.
Perna, A., *see* Cervelli, S. et al.
Pertl, W., *see* Fricke, K. et al.
Petruzzelli, G. (Pisa, Italy)
Recycling waste in agriculture: heavy metal bioavailability 493
Pimentel, D., Culliney, T.W., Buttler, I.W., Reinemann, D.J. and Beckman, K.B. (Ithaca, NY, U.S.A.)
Low-input sustainable agriculture using ecological management practices 3
Plochberger, K. (Vienna, Austria)
Feeding experiments. A criterion for quality estimation of biologically and conventionally produced foods 419

Pokarzhevskij, A.D., Zaboev, D.P., Gusev, A.A. (Moscow, U.S.S.R.), Gordienko, S.A. and Bohac, J. (Budejovice, C.S.S.R.)
Biogenic turnover of matter, soil biota and problems of agroecosystem development 281
Rabatin, S.C. (Columbus, OH, U.S.A.) and Stinner, B.R. (Wooster, OH, U.S.A.)
The significance of vesicular-arbuscular mycorrhizal fungal-soil macroinvertebrate interactions in agroecosystems 195
Ragozza, L., see Del Re, A.A.M. et al.
Raschi, A., Vazzana, C. and Surace, R. (Firenze, Italy), Scarascia Mugnozza, G. and Valentini, R. (Viterbo, Italy)
The use of ultrasound technique to monitor freezing and thawing of water in plants 411
Reinemann, D.J., *see* Pimental, D. et al.
Reintjes, H.C., *see* Wit, P. and Reintjes, H.C.
Renzoni, A., *see* Bacci, E. et al.
Reyner, A., *see* Acutis, M. et al.
Rondelli, E., *see* Del Re, A.A.M. et al.
Rossini, L., *see* Cova, D. et al.
Rossini, L., *see* Del Re, A.A.M. et al.
Ryszkowski, L. (Poznan, Poland)
Control of energy and matter fluxes in agricultural landscapes 107
Sabatini, M.A., *see* Fratello, B. et al.
Samways, M.J. (Pietermartizburg, South Africa)
Insect conservation and the disturbance landscape 183
Scarascia Mugnozza, G., *see* Raschi, a. et al.
Schueler, C., Biala, J. and Vogtmann, H. (Witzenhausen, F.R.G.)
Antiphytopathogenic properties of biogenic waste compost 477
Scialabba, A., *see* Colombo, P. et al.
Severi, A., *see* Bacci, E. et al.
Siniscalo, C., *see* acutis, M. et al.
Sortino, M., *see* Colombo, P. et al.
Stinner, B.R., *see* Rabatin, S.C. and Stinner, B.R.
Stinner, D.H., Stinner, B.R. (Wooster, OH, U.S.A.) and Paoletti, M.G. (Padova, Italy)
In search of traditional farm wisdom for a more sustainable agriculture: a study of Amish farming and society 77
Stopes, C., Woodward, L., Forde, G. (Hamstead Marshall, Gt. Britain) and Vogtmann, H. (Witzenhausen, F.R.G)
Effects of composted FYM and a compound fertiliser on yield and nitrate accumulation in three summer lettuce cultivars grown in an organic system 555
Surace, R., *see* Raschi, a. et al.
Tellarini, V., *see* Caporali, F. et al.
Toller, Gb., *see* Flaim, G.M. and Toller, G.b.
Tomei, P.E., *see* Caporali, F. et al.
Trapani, S., *see* Colombo, P. et al.
Trevisan, M., *see* Cova, D. et al.
Trevisan, M., *see* Del Re, A.A.M. et al.
Uscidda, C., *see* Fratello, B. et al.
Valentini, R., *see* Raschi, A. et al.
Van Veen, J.A., *see* Kuikman, P.J. et al.
Van Vuuren, M.M.I., *see* Kuikman, P.J. et al.
Vazzana, C., *see* Raschi, A. et al.
Vighi, M., *see* Bacci, E. et al.
Voegele, J.M. (Stuttgart, F.R.G.)
Biological control of *Brontispa longissima* in Western Samoa: an ecological and economic evaluation 315

Vogtmann, H., *see* Fricke, K. et al.
Vogtmann, H. and Fricke, K. (Witzenhausen, F.R.G)
Nutrient value and utilization of biogenic compost in plant productions 471
Vogtmann, H., *see* Schueler, C. et al.
Vogtmann, H., *see* Meier-Ploeger, A. et al.
Vogtmann, H., *see* Stopes, C. et al.
Weltzien, H.C. (Bonn, F.R.G.)
Some effects of composted organic materials on plant health 439
Wit, P. (Delft, The Netherlands) and Reintjes, H.C. (Leusden, The Netherlands)
An agro-ecological survey of the Boé Province, Guinea Bissau 609
Woodward, L., *see* Stopes, C. et al.
Wu, S.-M. (Nanjing, Peoples' Republic of China), Xu, S.-R. and Wu, J.-L. (Nanjing, China)
Ecological agriculture within a densely populated area in China 597
Xu, S.–R., *see* Wu, S.-M. et al.
Zaboev, D.P., *see* Pokarzhevskij, A.D. et al.
Zanaboni, A. and Lorenzoni, G.G. (Padova, Italy)
The importance of hedges and relict vegetation in agroecosystems and environment reconstitution 155
Zanetti, A., *see* Daccordi, M. and Zanetti, A.

SUBJECT INDEX

Agricultural surplus
Ecological perspectives of changing agricultural land use in the European Community 99
Agroecology
Agroecology patterns in northeastern Italy 139
Agroecology: a new research and development paradigm for world agriculture 37
An ecological approach to agriculture - the Austrian example 573
Biogenic turnover of matter, soil biota and problems of agroecosystem development 281
Carabid beetle communities (Carabidae, Coleoptera) in biologically and conventionally farmed agroecosystems 241
Ecological agriculture within a densely populated area in China 597
Ecology of low-input, no-tillage agroecosystems 331
Soil invertebrate dynamics of soybean agroecosystems encircled by hedgerows or not in Friuli, Italy. First data 163
The importance of hedges and relict vegetation in agroecosystems and environment reconstitution 155
Agroecosystems
The significance of vesicular-arbuscular mycorrhizal fungal-soil macroinvertebrate interactions in agroecosystems 195
Alfalfa
Effects of agricultural practices on soil Arthropoda: organic and mineral fertilizers in alfalfa fields 227
Amish farming
In search of traditional farm wisdom for a more sustainable agriculture: a study of Amish farming and society 77
Analysis
Individual competition indices for conifer plantations 429
Problems in evaluating the economics of ecological agriculture 57
Apples
Treatment of post-harvest pesticide residues 505
Arid soils
Environmental consequences of salts exports from an irrigated landscape in the Ebro River Basin, Spain 131
Arthropods
Effects of agricultural practices on soil Arthropoda: organic and mineral fertilizers in alfalfa fields 227
Atrazine
Models, field studies, laboratory experiments: an integrated approach to evaluate the environmental fate of atrazine (*s*-triazine herbicide) 513
Austria
An ecological approach to agriculture - the Austrian example 573
Carabid beetle communities (Carabidae, Coleoptera) in biologically and conventionally farmed agroecosystems 241
Bacteria
Effect of soil moisture regime on predation by protozoa of bacterial biomass and the release of bacterial nitrogen 271
Beetles
Biological control of *Brontispa longissima* in Western Samoa: an ecological and economic evaluation 315

Carabid and staphylinid beetles in two vineyards in the Province of Verona (Italy) 307
Carabid beetle communities (Carabidae, Coleoptera) in biologically and conventionally farmed agroecosystems 241
Belgium
An ecological analysis of the spider fauna (Araneae) occurring in maize fields, Italian ryegrass fields and their edge zones, by means of different multivariate techniques 293
Biogenic waste
Nutrient value and utilization of biogenic compost in plant production 471
Quality of food plants grown with compost from biogenic waste 483
Technology and undesirable components on compost of separately collected organic wastes 463
Antiphytopathogenic properties of biogenic waste compost 477
Biological control
Biological control of *Brontispa longissima* in Western Samoa: an ecological and economic evaluation 315
Biological farming
An ecological approach to agriculture – the Austrian example 573
Biologically produced food
Feeding experiments. A criterion for quality estimation of biologically and conventionally produced foods 419
Birds
Birds community patterns in Mediterranean farmlands: a comment 177
Brassica
Nutrient value and utilization of biogenic compost in plant production 471
Carica guercifolia
The ecomorphology of *Carica quercifolia* Solms-Laub. in a Mediterranean climate 397
China
Ecological agriculture within a densely populated area in China 597
Classification
The role of taxanomy in the analysis of natural and agricultural communities 57
Climate
Insect conservation and the disturbance landscape 183
Clover
Influence of undersown clovers on weeds and on the yield of winter wheat in organic farming 389
Communities
The role of taxanomy in the analysis of natural and agricultural communities 57
Competition effects
Individual competition indices for conifer plantations 429
Composting
Antiphytopathogenic properties of biogenic waste compost 477
Effects of composted FYM and a compound fertiliser on yield and nitrate accumulation in three summer lettuce cultivars grown in an organic system 555
Quality of food plants grown with compost from biogenic waste 483
Recycling waste in agriculture: heavy metal bioavailability 493
Some effects of composted organic materials on plant health 439
Technology and undesirable components on compost of separately collected organic wastes 463
Copper
Agroecology patterns in northeastern Italy 139

Conifers
Individual competition indices for conifer plantations 429
Contamination
Technology and undesirable components on compost of separately collected organic wastes 463
Conventional farming
Experimental natural history of sustainable agriculture: syndromes of production 447
Soil fauna in sustainable agriculture: results of an integrated farming system at Lautenbach, F.R.G. 561
Conventionally produced food
Feeding experiments. A criterion for quality estimation of biologically and conventionally produced foods 419
Conversion efficiency
Energy and nutrient flow through detritus food chains 205
Cultivations
The importance of integration in sustainable agricultural systems 25
Decomposition
The importance of the fauna in agricultural soils: research approaches and perspectives .. 47
Degradation
Ecological perspectives of changing agricultural land use in the European Community 99
Detritus
Energy and nutrient flow through detritus food chains 205
Disease protection
Antiphytopathogenic properties of biogenic waste compost 477
Some effects of composted organic materials on plant health 439
Ecological management
Low-input sustainable agriculture using ecological management practices 3
Problems in evaluating the economics of ecological agriculture 67
Ecology
Biological control of *Brontispa longissima* in Western Samoa: an ecological and economic evaluation 315
Bird community patterns in Mediterranean farmlands: a comment 177
Interactions between agricultural and ecological systems at the landscape level 119
Economics
Biological control of *Brontispa longissima* in Western Samoa: an ecological and economic evaluation 315
Concepts to sustain a change in farm performance evaluation 579
Problems in evaluating the economics of ecological agriculture 67
EEC policy
Agricultural farm planning and protection of the environment 91
Ecological perspectives of changing agricultural land use in the European Community 99
Energy control
Control of energy and matter fluxes in agricultural landscapes 107
Erosion
Interactions between agricultural and ecological systems at the landscape level 119
Eucalyptus
The use of ultrasound technique to monitor freezing and thawing of water in plants 411
Evaluation
Concepts to sustain a change in farm performance evaluation 579

Problems in evaluating the economics of ecological agriculture 67
Farm planning
Agricultural farm planning and protection of the environment 91
Federal Republic of Germany
Soil fauna in sustainable agriculture: results of an integrated farming system at Lautenbach, F.R.G. 561
Feeding experiments
Feeding experiments. A criterion for quality estimation of biologically and conventionally produced foods 419
Fertilizer
Effects of composed FYM and a compound fertiliser on yield and nitrate accumulation in three summer lettuce cultivars grown in an organic system. 555
Quality of food plants grown with compost from biogenic waste 483
Effects of agricultural practices on soil Arthropoda: organic and mineral fertilizers in alfalfa fields 227
The Dutch programme on soil ecology of Arable farming systems. 2. Geogenesis, agricultural history, field site characteristics and present farming systems at the Lovinkhoeve experimental farm 361
The importance of integration in sustainable agricultural systems 25
Filtration
Treatment of post-harvest pesticide residues 505
Fly ash
Recycling waste in agriculture; Heavy metal bioavailability 493
Food chains
Energy and nutrient flow through detritus food chains 205
Freesing/thawing
The use of ultrasound technique to monitor freezing and thawing of water in plants 395
Fungi
Antiphytopathogenic properties of biogenic waste compost 477
Some effects of composted organic materials on plant health 439
Grass
Evolution of vegetation under intensive grazing: two examples in north-western Italian mountains 347
The influence of vegetation structure on the development of soil mesofauna 253
Grassland
Interactions between agricultural and ecological systems at the landscape level 119
Grazing
Evolution of vegetation under intensive grazing: two examples in north-western Italian mountains 347
Guinea Bissau
An agro-ecological survey of the Boé Province, Guinea Bissau 609
Habitats
The role of taxanomy in the analysis of natural and agricultural communities 57
Heavy metals
Recycling waste in agriculture: heavy metal bioavailability 493
Hedges and forest relicts
Agroecology patterns in northeastern Italy 139
Soil invertebrate dynamics of soybean agroecosystems encircled by hedgerows or not in Friuli, Italy. First data 163
The importance of hedges and relict vegetation in agroecosystems and environment reconstitution 155

Hens
Feeding experiments. A criterion for quality estimation of biologically and conventionally produced foods 419
Herbicides
A simple model to evaluate herbicide fate in the air–water–soil system 523
Models, field studies, laboratory experiments: an integrated approach to evaluate the environmental fate of atrazine (*s*-triazine herbicide) 513
High-input agriculture
Concepts to sustain a change in farm performance evaluation 579
History of agriculture
Agroecology patterns in northeastern Italy 139
Insect conservation and the disturbance landscape 183
Horses
In search of traditional farm wisdom for a more sustainable agriculture: a study of Amish farming and society 77
Household refuse
Technology and undesirable components on compost of separately collected organic wastes 463
Hybridization
The role of taxanomy in the analysis of natural and agricultural communities 57
Insects
Insect conservation and the disturbance landscape 183
Integrated farming
Soil fauna in sustainable agriculture: results of an integrated farming system at Lautenbach, F.R.G. 561
The importance of integration in sustainable agricultural systems 25
Integrated pest management
Agroecology: a new research and development paradigm for world agriculture 37
Interactions
The influence of vegetation structure on the development of soil mesofauna 253
The significance of vesicular–arbuscular mycorrhizal fungal–soil macroinvertebrate interactions in agroecosystems 195
Ireland
The invertebrate fauna of reclaimed cutaway peat in Central Ireland and its influence on soil fertility and plant growth 217
Irrigation
Effects of agricultural practices on soil Arthropoda: organic and mineral fertilizers in alfalfa fields 227
Environmental consequences of salts exports from an irrigated landscape in the Ebro River Basin, Spain 131
Italy
Agroecology patterns in northeastern Italy 139
Bird community patterns in Mediterranean farmlands: a comment 177
Carabid and staphylinid beetles in two vineyards in the Province of Verona (Italy) 307
Evolution of vegetation under intensive grazing: two examples in north-western Italian mountains 347
Pesticide residues in the Po River watershed: application of a mathematical model 549
Soil invertebrate dynamics of soybean agroecosystems encircled by hedgerows or not in Friuli, Italy. First data 163

The importance of hedges and relict vegetation in agroecosystems and environment reconstitution 155
Japan
Experimental natural history of sustainable agriculture: syndromes of production 447
Kohlrabi
Nutrient value and utilization of biogenic compost in plant production 471
Landscape
Control of energy and matter fluxes in agricultural landscapes 107
Interactions between agricultural and ecological systems at the landscape level 119
Agroecology patterns in northeastern Italy 139
Lettuce
Effects of composted FYM and a compound fertiliser on yield and nitrate accumulation in three summer lettuce cultivars grown in an organic system 555
Locusts
Agroecology patterns in northeastern Italy 139
Low-input agriculture
Agroecology: a new research and development paradigm for world agriculture 37
Concepts to sustain a change in farm performance evaluation 579
Ecology of low-input, no-tillage agroecosystems 315
In search of traditional farm wisdom for a more sustainable agriculture: a study of Amish farming and society 77
Low-input sustainable agriculture using ecological management practices 3
Soil fauna in sustainable agriculture: results of an integrated farming system at Lautenbach, F.R.G. 561
The importance of integration in sustainable agricultural systems 25
Maize
An ecological analysis of the spider fauna (Araneae) occurring in maize fields, Italian ryegrass fields and their edge zones, by means of different multivariate techniques 293
Low-input sustainable agriculture using ecological management practices 3
Management practices
Ecological agriculture within a densely populated area in China 597
Experimental natural history of sustainable agriculture: syndromes of production 447
Low-input sustainable agriculture using ecological management practices 3
Management trends
Agroecology patterns in northeastern Italy 139
Manure
Effects of composted FYM and a compound fertiliser on yield and nitrate accumulation in three summer lettuce cultivars grown in an organic system 555
Matter fluxes
Control of energy and matter fluxes in agricultural landscapes 107
Matter turnover
Biogenic turnover of matter, soil biota and problems of agroecosystem development 281
Microorganisms
Biogenic turnover of matter, soil biota and problems of agroecosystem development 281
Migration
Bird community patterns in Mediterranean farmlands: a comment 177
Modelling
A simple model to evaluate herbicide fate in the air–water–soil system 523
Pesticide residues in the Po River watershed: application of a mathematical model 539
Mountain vegetation
Evolution of vegetation under intensive grazing: two examples in north-western Italian mountains 347

Mycorrhiza
The significance of vesicular–arbuscular mycorrhizal fungal–soil macroinvertebrate interactions in agroecosystems 195
New crops
The ecomorphology of *Carica quercifolia* Solms-Laub. in a Mediterranean climate 397
Nitrogen
Effect of soil moisture regime on predation by protozoa of bacterial biomass and the release of bacterial nitrogen 271
No-tillage
Ecology of low-input, no-tillage agroecosystems 331
Interactions Normandy between agricultural and ecological systems at the landscape level 119
Nutrient dynamics
Energy and nutrient flow through detritus food chains 205
The importance of the fauna in agricultural soils: research approaches and perspectives .. 47
Nutrients
Nutrient value and utilization of biogenic compost in plant production 471
Peat
The invertebrate fauna of reclaimed cutaway peat in Central Ireland and its influence on soil fertility and plant growth 217
Pest control
Low-input sustainable agriculture using ecological management practices 3
Pesticides
Assessment of the toxicological risk of pesticides and its correlation to the physico-chemical characteristics and tissue distribution 531
Pesticide residues in the Po River watershed: application of a mathematical model 539
The importance of integration in sustainable agricultural systems 25
Treatment of post-harvest pesticide residues 505
Plantations
Individual competition indices for conifer plantations 429
Pollution
Ecological perspectives of changing agricultural land use in the European Community 99
Environmental consequences of salts exports from an irrigated landscape in the Ebro River basin, Spain 131
Primary production
The importance of the fauna in agricultural soils: research approaches and perspectives .. 47
Protection of environment
Agricultural farm planning and protection of the environment 91
Protozoa
Effect of soil moisture regime on predation by protozoa of bacterial biomass and the release of bacterial nitrogen 271
Reclamation
The invertebrate fauna of reclaimed cutaway peat in Central Ireland and its influence on soil fertility and plant growth 217
Recycling
Recycling waste in agriculture: heavy metal bioavailability 493
Residues
A simple model to evaluate herbicide fate in the air–water–soil system 523
Models, field studies, laboratory experiments: an integrated approach to evaluate the environmental fate of atrazine (*s*-triazine herbicide) 513
Pesticide residues in the Po River watershed: application of a mathematical model 539

Treatment of post-harvest pesticide residues 505
Rice
Experimental natural history of sustainable agriculture: syndromes of production 447
Rotations
In search of traditional farm wisdom for a more sustainable agriculture: a study of Amish farming and society 77
The importance of integration in sustainable agricultural systems 25
Rural development
An agro-ecological survey of the Boé Province, Guinea Bissau 609
Ryegrass
An ecological analysis of the spider fauna (Araneae) occurring in maize fields, Italian ryegrass fields and their edge zones, by means of different multivariate techniques 293
Salinization
Environmental consequences of salts exports form an irrigated landscape in the Ebro River Basin, Spain 131
Samoa
Biological control of *Brontispa longissima* in Western Samoa: an ecological and economic evaluation 315
Sewage
Recycling waste in agriculture: heavy metal bioavailability 493
Shelterbelts
Control of energy and matter fluxes in agricultural landscapes 107
Shizeñ farming
Experimental natural history of sustainable agriculture: syndromes of production 447
Sicily
The ecomorphology of *Carica guercifolia* Solms-Laub. in a Mediterranean climate 397
Soil erosion
Low-input sustainable agriculture using ecological management practices 3
Soil fauna
Biogenic turnover of matter, soil biota and problems of agroecosystem development 281
Ecology of low-input, no-tillage agroecosystems 331
Effect of soil moisture regime on predation by protozoa of bacterial biomass and the release of bacterial nitrogen 271
Effects of agricultural practices on soil Arthropoda: organic and mineral fertilizers in alfalfa fields 227
Soil fauna in sustainable agriculture: results of an integrated farming system at Lautenbach, F.R.G. 561
Soil invertebrate dynamics of soybean agroecosystems encircled by hedgerows or not in Friuli, Italy. First data 163
The Dutch programme on soil ecology of arable farming systems. 2. Geogenesis, agricultural history, field site characteristics and present farming systems at the Lovinkhoeve experimental farm 361
The importance of the fauna in agricultural soils: research approaches and perspectives .. 47
The influence of vegetation structure on the development of soil mesofauna 253
The invertebrate fauna of reclaimed cutaway peat in Central Ireland and its influence on soil fertility and plant growth 217
The significance of vesicular–arbuscular mycorrhizal fungal–soil macroinvertebrate interactions in agroecosystems 195
Soil microflora
The importance of the fauna in agricultural soils: research approaches and perspectives .. 47

Soil moisture
Effect of soil moisture regime on predation by protozoa of bacterial biomass and the release of bacterial nitrogen 271
Soil structure
The Dutch programme on soil ecology of arable farming systems. 2. Geogenesis, agricultural history, field site characteristics and present farming systems at the Lovinkhoeve experimental farm 361
The importance of the fauna in agricultural soils: research approaches and perspectives .. 47
Soybeans
Soil invertebrate dynamics of soybean agroecosystems encircled by hedgerows or not in Fruili, Italy. First data 163
Spain
Environmental consequences of salts exports from an irrigated landscape in the Ebro River Basin, Spain 131
Spider mites
Agroecology patterns in northeastern Italy 139
Spiders
An ecological analysis of the spider fauna (Araneae) occurring in maize fields, Italian ryegrass fields and their edge zones, by means of different multivariate techniques 293
Sugar beet
Carabid beetle communities (Carabidae, Coleoptera) in biologically and conventionally farmed agroecosystems 241
Taxonomy
The role of taxanomy in the analysis of natural and agricultural communities 57
The Netherlands
The Dutch programme on soil ecology of Arable farming systems. 2. Geogenesis, agricultural history, field site characteristics and present farming systems at the Lovinkhoeve experimental farm 361
Topography
Insect conservation and the disturbance landscape 183
Toxicity
Assessment of the toxicological risk of pesticide and its correlation to the physico-chemical characteristics and tissue distribution 531
Traditional management
In search of traditional farm wisdom for a more sustainable agriculture: a study of Amish farming and society 77
Triazines
Models, field studies, laboratory experiments: an integrated approach to evaluate the environmental fate of atrazine (*s*-triazine herbicide) 513
Ultrasound
The use of ultrasound technique to monitor freezing and thawing of water in plants 411
Undersowing
Influence of undersown clovers on weeds and on the yield of winter wheat in organic farming 389
Vegetable crops
Quality of food plants grown with compost from biogenic waste 483
Vegetation succession
The influence of vegetation structure on the development of soil mesofauna 253
Vineyards
Carabid and staphylinid beetles in two vineyards in the Province of Verona (Italy) 307
Agroecology patterns in northeastern Italy 139

Water erosion
Interactions between agricultural and ecological systems at the landscape level 119
Water wheat
Carabid beetle communities (Carabidae, Coleoptera) in biologically and conventionally farmed agroecosystems 241
Influence of undersown clovers on weeds and on the yield of winter wheat in organic farming 389
Yield
Influence of undersown clovers on weeds and on the yield of winter wheat in organic farming 389